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Application Number 10/783,999
Response to Office Action mailed March 6, 2008

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended): A computer-implemented system for storing data, the system comprising:

a processor for executing instructions; and
a memory operatively coupled to the processor for storing the instructions, the executed instructions providing:

one or more member cubes ~~for~~ storing data partitioned along a single partitioning dimension; and

a control cube ~~for~~ having metadata about the one or more member cubes, the control cube accessing the member cubes.

Claim 2 (Original): The system as claimed in claim 1, wherein the control cube has an entire partitioned dimension relative to the member cubes.

Claim 3 (Currently Amended): The system as claimed in claim 2, wherein the ~~control cube metadata~~ further ~~has~~ includes:

a listing of other dimensions of the member cubes; and
a listing of measures of the member cubes.

Claim 4 (Original): The system as claimed in claim 1, wherein the data is partitioned along the time dimension.

Claim 5 (Original): The system as claimed in claim 4, wherein the control cube has:
an entire time dimension relative to the member cubes;
a listing of other dimensions of the member cubes; and
a listing of measures of the member cubes.

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Claim 6 (Original): The system as claimed in claim 5, wherein a member cube is added to the system.

Claim 7 (Currently Amended): The system as claimed in claim 6, wherein a member cube of the one or more member cubes is removed from the system.

Claim 8 (Original): The system as claimed in claim 5, wherein the control cube restricts access to member cubes.

Claim 9 (Currently Amended): The system as claimed in claim 5, further comprising a plurality of control cubes, each control cube coupled with a group of member cubes from a pool of member cubes partitioned along the single partitioning dimension to form a separate dimension-based partitioned cube.

Claim 10 (Original): The system as claimed in claim 9, wherein different control cubes over the same pool of member cubes restrict data access to different portions of data for different users.

Claim 11 (Currently Amended): The system as claimed in claim 2, wherein a member cube is the of the one or more member cubes is a control cube of another dimension-based partitioned cube.

Claim 12 (Currently Amended): A computer-implemented method of transforming a body of data into a dimension-based partitioned cube, the method comprising the steps of:

partitioning the data into one or more dimension-based partitions, the data partitioned along a single partitioning dimension;
creating member cubes corresponding to the one or more dimension-based partitions;
creating a control cube having metadata about the member cubes; and
~~creating a control cube for representing-accessing~~ the data distributed over the member cubes through the control cube.

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Claim 13 (Original): The method as claimed in claim 12, wherein the data is partitioned along the time dimension.

Claim 14 (Original): The method as claimed in claim 13, wherein the data is partitioned into equidistant time intervals.

Claim 15 (Original): The method as claimed in claim 13, wherein the data is partitioned into non-equidistant time intervals.

Claim 16 (Original): The method as claimed in claim 13, wherein the data is partitioned into a sliding window of time intervals.

Claim 17 (Withdrawn): A method of querying a dimension-based partitioned cube, the method comprising the steps of:

- analyzing a query received for a body of data organized into a dimension-based partitioned cube;
- redirecting the query to one or more member cubes; and
- aggregating results received from the one or more member cubes.

Claim 18 (Withdrawn): The method of claim 17, wherein the data is partitioned along the time dimension.

Claim 19 (Withdrawn): An online analytical processing query engine comprising a logic module for implementing the method of claim 17.

Claim 20 (Withdrawn): An online analytical processing query engine comprising a logic module for implementing the method of claim 18.

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Claim 21 (New): The system as claimed in claim 1, wherein the metadata comprises:
information describing how the member cubes are related to each other along the single partitioning dimension; and
information describing what the member cubes are, and how the member cubes are deployed.

Claim 22 (New): The method as claimed in claim 12, wherein creating the control cube further comprises:
including metadata describing how the member cubes are related to each other along the single partitioning dimension;
including metadata describing what the member cubes are, and how the member cubes are deployed.

Claim 23 (New): The method as claimed in claim 12, wherein accessing the data distributed over the member cubes through the control cube comprises accessing an entire partitioned dimension relative to the member cubes.

Claim 24 (New): The method as claimed in claim 12, further comprising adding a member cube to the control cube.

Claim 25 (New): The method as claimed in claim 12, further comprising removing a member cube from the control cube.